



Air Force Studies and Analyses Agency Force Application Division



Global Mobility Branch

Lt Col Bob Mongillo

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GLOBAL MOBILITY BRANCH **OVERVIEW**

- MISSION
- PERSONNEL
- FY95 STUDIES/ANALYSES
- FY96 STUDIES/ANALYSES
- ONGOING PROJECTS
- MODELS

GLOBAL MOBILITY BRANCH

MISSION

Conduct studies and analyses to support Air Force senior leadership, the Air Staff, and a wide range of DoD customers in the areas of:

- Strategic Airlift
- Tanker Deployment and Employment
- Intratheater Airlift
- Aircraft Loading
- Aerial Port Operations
- Combat Search and Rescue
- Operational Support Aircraft
- Special Operations Forces
- Wargaming

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PERSONNEL

Chief, Global Mobility Branch

MS, Mngt Science; MS, Applied Statistics

Airlift Analyst

BS, Operations Research & MBA

Tanker Analyst

MS, Operations Analysis

Airlift Analyst

MS, Operations Research

Airlift Systems Analyst

Airlift Analyst

Operations Research Analyst

Operations Research Analyst

Lt Col Bob Mongillo

Maj Bob Nuanes

Maj Roger Perret

Capt Greg Rau

Vacant, GS-13

Vacant, Maj

Vacant, Lt Col

Vacant, GS-14

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FY95 STUDIES & ANALYSES

C-17 & C-130 Tactical Unit Moves

- Determined the best mix of C-17 & C-130 aircraft to support 11 high-leverage Army combat tactical unit moves in theater
- Results briefed by OSD (PA&E) to C-17 DAB

Combat Rescue

- Determined the 2MRC wartime requirement for AF/XOF
- Showed the ARC/Active mix imbalance
- Programming action shifted ARC assets to Active units

Air Refueling Tanker Requirements

- Determined 2MRC and SIOP+1 wartime requirement
- Briefed to Air Force Council by AF/XOFM

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FY96 STUDIES & ANALYSES

Campaign Analysis of Mobility System Changes

- Show Air Force senior leadership the impact changes to the mobility system can have on the outcome of a war
- Using 1998-2003 DPG, show impact of force closure on the war
 - Forward delivery of Army units in near-operational configurations
 - Insufficient MOG and reduced airfield capacity
 - Degradations in air refueling capability

C-130 Direct Service Support

- Part of the JCS J-4 Intratheater Lift Analysis
- Based on a 2MRC DPG, determine the C-130 wartime requirement
- Basis for AF/XOF C-130 Master Stationing Plan and POM funding

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FY96 STUDIES & ANALYSES

C-130 ARC/Active Force Mix

- Determine for AF/XOF, what portion of the C-130 fleet needs to be active duty to be able to support ongoing contingencies and wartime requirements

Near-Operational Loads

- Show for OSD (PA&E) the impact of near operational loads on strategic airlift as well as on battle outcome

C-130H, C-130J and C-130J-30 Loads Comparison

- Assist ACC/SAS evaluate the operational capabilities of each aircraft

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ONGOING PROJECTS

Air Force Mobility M&S Users' Group

- Provide a forum for mobility operators, analysts and academicians to review analyses, models and problem solving approaches

Wargaming

- Improve the play of strategic and theater airlift in wargames to show the impact of airlift shortfalls to Air Force senior leaders

Airlift Loading Model (ALM)

- Consolidate two versions of ALM and provide configuration control

THRUPUT/CONOPS

- Combine the best of two optimization models into tool for mobility system analyses

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MODELS

Airlift Loading Model (ALM)

AFSAA's detailed analytical loading model for combat unit deployment by air

THRUPUT

AFSAA's detailed strategic airlift linear optimization model

Mobility Analysis Support System (MASS)

AMC's detailed strategic and tactical airlift stochastic simulation model

Combined Mating and Ranging Planning System (CMARPS)

STRATCOM's tanker deployment and employment simulation model

Joint Flow and Analysis System for Transportation (JFAST)

TRANSCOM's PC-based analysis tool for OPLAN deliberate planning

Analysis of Mobility Platform (AMP)

TRANSCOM's end-to-end confederation of mobility models